IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN from Photopia 2017.0.4 see: www.ltioptics.com/ies
[ISSUEDATE] 2026-04-29
[TESTDATE] Wed Jan 24 15:50:54 2018
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_
[LUMINAIRE] 1x4 LED VANDAL RESISTANT CLEANROOM LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	25.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.38 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2778	2049	1800
55	2259	1513	1274
65	1693	1011	836
75	1105	556	467
85	566	209	185

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1572.844	1572.844	1572.844	1572.844	1572.844
10	1510.815	1509.802	1502.992	1486.049	1488.243
20	1357.496	1345.876	1328.405	1311.703	1291.437
30	1151.516	1138.370	1094.961	1061.902	1043.651
40	911.204	893.699	832.856	787.761	770.401
50	656.709	632.844	579.330	532.738	512.060
60	415.656	398.267	357.594	323.378	311.079
70	211.763	202.124	178.526	163.365	157.087
80	70.108	63.293	58.222	55.630	56.391
90	4.650	5.469	6.089	6.331	6.549
100	1.274	1.816	2.107	2.097	1.850
110	0.625	0.891	0.959	1.056	1.085
120	0.266	0.320	0.383	0.484	0.460
130	0.412	0.242	0.252	0.310	0.262
140	0.242	0.228	0.271	0.291	0.315
150	0.378	0.281	0.310	0.262	0.203
160	0.179	0.232	0.218	0.266	0.276
170	0.121	0.194	0.305	0.334	0.291
180	0.368	0.368	0.368	0.368	0.368

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.35	N.A.	17.50
0-30	1108.76	N.A.	35.40
0-40	1717.17	N.A.	54.80
0-60	2690.45	N.A.	85.90
0-80	3087.95	N.A.	98.60
0-90	3123.94	N.A.	99.80
10-90	2977.3	N.A.	95.10
20-40	1169.82	N.A.	37.40
20-50	1720.1	N.A.	54.90
40-70	1242.66	N.A.	39.70
60-80	397.49	N.A.	12.70
70-80	128.12	N.A.	4.10
80-90	35.99	N.A.	1.10
90-110	5.74	N.A.	0.20
90-120	6.40	N.A.	0.20
90-130	6.70	N.A.	0.20
90-150	7.09	N.A.	0.20
90-180	7.31	N.A.	0.20
110-180	1.57	N.A.	0.10
0-180	3131.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.64
10-20	400.71
20-30	561.41
30-40	608.41
40-50	550.28
50-60	423.00
60-70	269.38
70-80	128.12
80-90	35.99
90-100	4.24
100-110	1.50
110-120	0.66
120-130	0.30
130-140	0.21
140-150	0.17
150-160	0.12
160-170	0.07
170-180	0.03

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

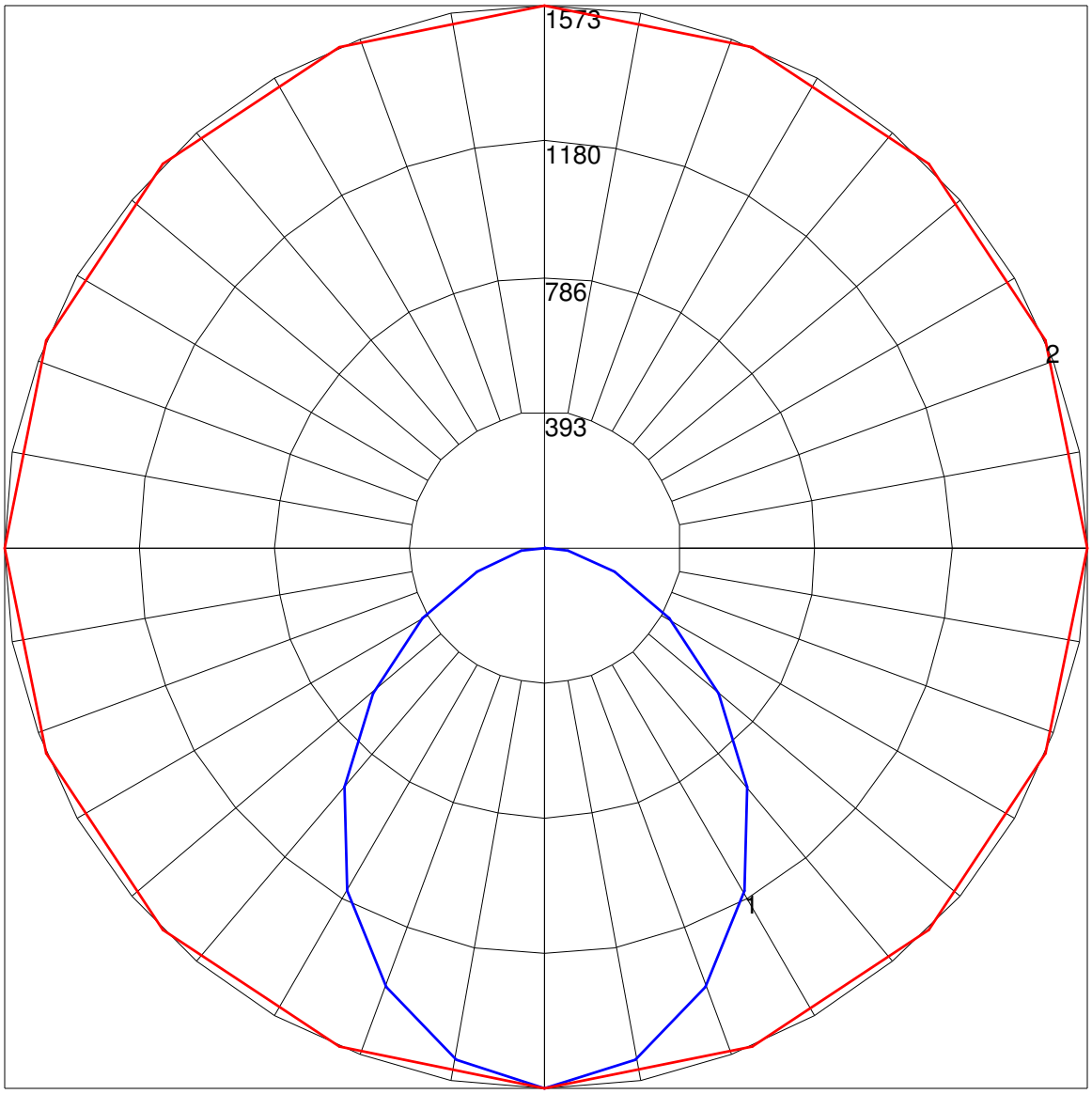
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.3	14.8	13.6	15.1	15.4	12.5	14.0	12.9	14.3	14.6
	3H	14.3	15.7	14.7	16.0	16.4	13.6	15.0	14.0	15.3	15.7
	4H	14.7	15.9	15.1	16.3	16.6	14.0	15.3	14.4	15.6	16.0
	6H	14.8	16.0	15.2	16.3	16.7	14.2	15.4	14.6	15.7	16.1
	8H	14.8	15.9	15.2	16.3	16.7	14.3	15.4	14.7	15.8	16.2
	12H	14.8	15.9	15.3	16.3	16.7	14.3	15.4	14.7	15.7	16.2
4H	2H	13.6	14.8	14.0	15.2	15.6	12.9	14.2	13.3	14.5	14.9
	3H	14.8	15.9	15.2	16.3	16.7	14.2	15.2	14.6	15.6	16.0
	4H	15.2	16.2	15.6	16.6	17.0	14.6	15.6	15.1	16.0	16.4
	6H	15.4	16.2	15.9	16.7	17.1	14.9	15.7	15.4	16.2	16.6
	8H	15.4	16.2	15.9	16.7	17.1	15.0	15.8	15.4	16.2	16.7
	12H	15.5	16.2	16.0	16.6	17.1	15.1	15.7	15.5	16.2	16.7
8H	4H	15.3	16.1	15.7	16.5	17.0	14.7	15.5	15.2	16.0	16.4
	6H	15.5	16.2	16.0	16.6	17.1	15.1	15.7	15.6	16.2	16.7
	8H	15.6	16.2	16.1	16.7	17.2	15.2	15.7	15.7	16.3	16.7
	12H	15.7	16.1	16.2	16.6	17.2	15.3	15.8	15.8	16.3	16.8
12H	4H	15.3	16.0	15.8	16.4	16.9	14.7	15.4	15.2	15.9	16.4
	6H	15.5	16.1	16.0	16.5	17.1	15.1	15.6	15.6	16.1	16.6
	8H	15.6	16.1	16.1	16.6	17.2	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.2

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1572.844 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.